

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number  
WO 03/106553 A1

(51) International Patent Classification<sup>7</sup>: C08L 23/00,  
23/10, 23/14, 23/16

(21) International Application Number: PCT/EP03/06043

(22) International Filing Date: 10 June 2003 (10.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
102 26 184.9 12 June 2002 (12.06.2002) DE  
60/394,615 9 July 2002 (09.07.2002) US

(71) Applicant (for all designated States except US): BASELL  
POLYOLEFINE GMBH [DE/DE]; Brühler Strasse 60,  
50389 Wesseling (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FUCHS, Alexan-  
der [DE/DE]; Moselstrasse 33, 68167 Mannheim (DE).  
MORHARD, Friederike [DE/DE]; Neckarpromenade 4,  
68167 Mannheim (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,  
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,  
VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: PROPYLENE COPOLYMER COMPOSITIONS HAVING A GOOD LOW-TEMPERATURE IMPACT TOUGHNESS  
AND A HIGH TRANSPARENCY

(57) Abstract: The present invention relates to a propylene copolymer composition comprising A) a propylene polymer containing  
from 0 to 10% by weight of olefins other than propylene and B) at least one propylene copolymer containing from 5 to 40% by weight  
of olefins other than propylene, where the propylene polymer A and the propylene copolymer B are present as separate phases and  
the propylene copolymer composition has a haze value of  $\leq 30\%$ , based on a path length of the propylene copolymer composition  
of 1 mm, and the brittle/tough transition temperature of the propylene copolymer composition is  $\leq -15^\circ\text{C}$ .



WO 03/106553 A1